

CLAIMS

What is claimed is:

1. A vibration device, comprising at least:
 - a support body;
 - a vibration member supported so that its periphery is connected to the support body, the vibration member having a first portion which is connected to the support body, and a second portion which is located inside the first portion and is not connected to the support body; and
 - a vibration element whose one surface in a first direction is connected to one main surface of the second portion in the vibration member, bending vibration of the vibration element in the first direction whose amplitudes vary along a second direction perpendicular to the first direction being caused by electrical signal input,
 - a first distance which is a distance between the vibration element and the first portion in a third direction which is perpendicular to the first and second directions, being longer than a second distance which is a distance between the vibration element and the first portion in the second direction.
2. The vibration device according to claim 1,
 - wherein the vibration element is elongated in the second direction.
3. The vibration device according to claim 1 or 2,
 - wherein, a relationship of $d1/d2 \geq 1.5$ holds, wherein $d1$ denotes the first distance and $d2$ denotes the second distance.
4. The vibration device according to any one of claims 1 to 3,
 - wherein the vibration member has its first surface exposed to an exterior, which is the other main surface of the vibration member, and is vibrated when the vibration element vibrates in response to the electric signal, and

wherein, in a point A which is a given place within the first surface of the vibration member in a vibrating state, when an amplitude corresponding to a case where a load of 10 N is applied to the point A and an amplitude corresponding to a case where no load is applied thereto are measured, a ratio of the amplitude corresponding to the no-load case to the amplitude corresponding to the 10 N-loaded case is less than or equal to 60 dB.

5. The vibration device according to claim 4,

wherein, in a given location within the first surface of the vibrating vibration member, under a condition where the given location is subjected to a load of 10 N, a difference in amplitude between individual places within the first surface is less than or equal to 60 dB in terms of a ratio of maximum value to minimum value of amplitude.

6. A portable terminal comprising at least;

the vibration device according to any one of claims 1 to 5; and

an electronic circuit that generates an electric signal to be inputted to the vibration element.